

AMENDMENTS TO THE CLAIMS:

1. (Currently Amended) A dental instrument having ~~a drive tool and~~ a transmission device with at least one magnetic and/or magnetizable clutch element, ~~each~~ at least one said clutch element having an air gap and a flux guide coil, the instrument comprising:

a means for influencing the transmission torque of the magnetic and/or magnetizable clutch element; and

a means for modifying the flux guide coil of the magnetic and/or magnetizable clutch element, said means for modifying being a magnetically soft part;

2. (Withdrawn) The dental instrument according to claim 1, further comprising:

a means for modifying the air gap of the clutch element.

3. (Currently Amended) The dental instrument according to claim 1, ~~further comprising~~ wherein:

~~a means for modifying the flux guide coil of the magnetic clutch element~~ said means for modifying being made of a magnetically conductive material in form of a sleeve.

4. (Currently Amended) The dental instrument according to claim 3, wherein:

~~the means for modifying the flux guide coil~~ said sleeve is positioned in ~~the~~ a zone of influence of one or more clutch elements.

5. (Withdrawn) The dental instrument according to claim 3, wherein:

the means for modifying the flux guide coil is an electromagnet.

6. (Withdrawn) The dental instrument according to claim 5, wherein:

the magnetic force of the electromagnet is controlled according to service parameters.

7. (Withdrawn) The dental instrument according to claim 5, wherein:  
the flux guide coil is indirectly modified by stationary magnets.
8. (Withdrawn) The dental instrument according to claim 5, wherein:  
the flux guide coil is directly modified by moving magnets, and  
the moving magnets transfer the torque with respect to the magnetic force.
9. (Withdrawn) The dental instrument according to claim 4, further comprising:  
a softly magnetized part,  
the low retentive part is only effective in a subzone of the magnetic clutch element.
- 93 10. (Currently Amended) The dental instrument according to claim 4, wherein:  
switching means are provided that cooperate with the magnetic clutch element and the  
~~low retentive~~ magnetically soft part.
11. (Currently Amended) The dental instrument according to claim 1, wherein:  
the magnetic clutch ~~elements are~~ element is chosen in such a manner, that after the  
declutching of the magnetic clutch ~~elements~~ element a force is created, which is opposite to ~~the~~  
an original working direction, by means of which the tool can be moved into the opposite  
direction.
12. (Currently Amended) The dental instrument according to claim 1, further comprising:  
a neck drive as said transmission device;  
a drive motor with high rotation speed; and  
a reduction gear for reducing the rotation speeds in a zone between 5 and 25  
rotations/sec. (300 to 2100 rotations/minute).

13. (Currently Amended) The dental instrument according to claim 1, wherein:  
the drive tool can be loaded with torsion up to a threshold value; and  
the ~~transmitting~~ transmission device is formed with the magnetic clutch element so that  
the threshold value of the drive tool is never reached.
14. (Original) The dental instrument according to claim 1, further comprising:  
a tool for root canal treatment.
15. (Original) The dental instrument according to claim 1, wherein:  
the magnetic clutch element is arranged so that rotations are transmitted on an input side  
and on an output side.
16. (Withdrawn) The dental instrument according to claim 1, wherein:  
the magnetic clutch element is arranged such that a part of the clutch performs a rotation,  
and the other part of the clutch performs a translation.
17. (Withdrawn) The dental instrument according to claim 1, wherein:  
both magnetic clutch elements perform translations.
18. (Original) The dental instrument according claim 1, wherein:  
a connection point is provided on a motor,  
said connection point corresponds to the connection point of a tool working with a high  
rotation speed.
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